This Page Is Inserted by IFW Operations and is not a part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

IMAGES ARE BEST AVAILABLE COPY.

As rescanning documents will not correct images, please do not report the images to the Image Problem Mailbox.



United States Patent and Trademark Office



UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER OF PATENTS AND TRADEMARKS P.O. Box 1450 Alexandria, Vignia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/055,210	01/23/2002	Clark TC. Nguyen	UOM 0205 PUSP	5046
22045	7590 05/22/2003			
BROOKS & KUSHMAN			EXAMINER	
1000 TOWN CENTER 22ND FL SOUTHFIELD, MI 48075			CHAPMAN JR, JOHN E	
			ART UNIT	PAPER NUMBER
			2856	6
			DATE MAILED: 05/22/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

÷		Application No.	Applicant(s)			
	· B					
	0.55	10/055,210	NGUYEN ET AL.			
	Offic Action Summary	Examiner	Art Unit			
		John E Chapman	2856			
The MAILING DATE of this communication appears on the cov r sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status						
1)[] [Responsive to communication(s) filed on	 ·				
2a)□ -	This action is FINAL . 2b)⊠ Th	nis action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
	n of Claims					
'-	claim(s) <u>1-26</u> is/are pending in the application					
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-26</u> is/are rejected.						
	7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or election requirement. Application Papers						
9) The specification is objected to by the Examiner.						
10)⊠ The drawing(s) filed on <u>23 January 2002</u> is/are: a)□ accepted or b)⊠ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.						
12) The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents have been received.						
2	. Certified copies of the priority document		ication No.			
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
14)∏ Acl	knowledgment is made of a claim for domest	ic priority under 35 U.S.C. § 1	19(e) (to a provisional application).			
a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.						
Attachment(s)						
2) Notice of 3) Informa	of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-948) tion Disclosure Statement(s) (PTO-1449) Paper No(s) 4	5) Notice of Info	nmary (PTO-413) Paper No(s) rmal Patent Application (PTO-152)			
U.S. Patent and Trade PTO-326 (Rev.		ction Summary	Part of Paper No. 6			

Application Number: 10/055,210

Art Unit: 2856

DETAILED ACTION

1. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the disk resonator and wineglass resonator (claims 23-26) must be shown or the features canceled from the claims. No new matter should be entered.

A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

2. The following is a quotation of the first and second paragraphs of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

3. Claims 1-9, 11-20 and 20-26 are rejected under 35 U.S.C. 112, first paragraph, as based on a disclosure which is not enabling.

A spring coupling two resonators is critical or essential to the practice of the invention, but not included in the claims. Providing a micromechnical filter apparatus without coupling two resonators by a soft coupling spring is not enabled by the disclosure. See *In re Mayhew*, 527 F.2d 1229, 188 USPQ 356 (CCPA 1976).

Application Number: 10/055,210

Art Unit: 2856

X

4. Claims 1-9, 11-20 and 20-26 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

There is insufficient structure recited to support the desired result of the filter apparatus having "a filter response in a sense mode." According to the specification, a filter spectrum is achieved by mechanically coupling two resonators by a soft coupling spring. See page 12, lines 17-21. Accordingly, the soft coupling spring is critical or essential to the filter apparatus having "a filter response in a sense mode." Consequently, the claims are incomplete for omitting essential elements, such omission amounting to a gap between the elements. See MPEP 2172.01.

Claims 3, 8, 11, 14, 19 and 22 set forth desired results without providing any means for achieving the desired result. Consequently, there is insufficient structure recited to support the desired results.

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.
- 6. Claims 1-4, 6-15 and 17-22, as best understood, are rejected under 35 U.S.C. 102(e) as being anticipated by Seshia et al.

Application Number: 10/055,210

Art Unit: 2856

Seshia et al. discloses a method and system for measuring angular speed of an object comprising resonators 202 and 204 intercoupled by a coupling system 210. The presence of the coupling system 210 will necessarily affect the operation of the device and thereby provide "a filter response in a sense mode."

Regarding claim 2, Seshia et al. discloses resonance frequencies in same in the drive and sense modes in Fig. 12.

Regarding claims 3, 8, 11, 14, 19 and 22, the desired results are not given any weight since no means for achieving the desired result is claimed. Furthermore, the presence of coupling system 210 provides a constraint on the resonators 202 and 204, thereby would necessarily flatten the frequency response of the sense mode.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mr. Chapman whose telephone number is (703) 305-4920.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 308-0956.

JOHN E. CHAPMAN PRIMARY EXAMINER